

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
22 March 2001 (22.03.2001)

PCT

(10) International Publication Number  
**WO 01/19182 A1**

(51) International Patent Classification<sup>7</sup>: **A01K 67/02**,  
67/027, A61K 48/00, C12N 5/16, 5/05, 5/08

(74) Agents: **PARK, A., J. et al.**; 6th Floor, Huddart Parker  
Building, Post Office Square, P.O. Box 949, Wellington  
6015 (NZ).

(21) International Application Number: **PCT/NZ00/00179**

(22) International Filing Date:  
14 September 2000 (14.09.2000)

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,  
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,  
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,  
NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,  
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
337792 14 September 1999 (14.09.1999) NZ

Published:  
— With international search report.

(71) Applicant and

(72) Inventor: **WELLS, David** [NZ/NZ]; 52 Enderley Avenue,  
Hamilton (NZ).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



**WO 01/19182 A1**

(54) Title: **NUCLEAR TRANSFER WITH SELECTED DONOR CELLS**

(57) Abstract: The present invention provides a method of nuclear transfer by selecting and segregating G1 cells from a donor cell population. This method is advantageous over the prior art as it provides certainty as to the stage of the cell cycle which the donor nuclei are in and allows for the production of cloned transgenic or non-transgenic embryonic cells, reconstituted embryos and whole animals for agricultural, pharmaceutical, nutraceutical and biomedical applications.